REAL TIME CONTOUR LINE GENERATION

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ABSTRACT OF THE DISCLOSURE

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The generation of contour plot images from elevation data in real time for

6   use in a digital moving map. The contour line interval is dynamically selectable.
The elevation data is scanned in 2 dimensions simultaneously, but in a single pass.

8   As the elevation data is scanned for the given contour line interval, a history is
maintained of the contour line elevation state in both dimensions. At any point, only

10   comparisons against the two historical values are required to determine if a point on
a contour line exists.